A.N.A.R.T.S. News Bulletin 1332 for 23rd January 2005.

Cols Column

Early Electrical Communication.

Cooke and Wheatstone.

Cooke had been experimenting with his Telegraph that he called ''A mechanical instrument'. He need to locate some copper wire, not easy in 1837. A friend, Dr. Roget, of Thesaurus fame, suggested he contact a Professor Charles Wheatstone, at Kings College Cambridge. Wheatstone had a large quantity of copper wire that he had been experimenting with transmission of signals over a long distance.

At Wheatstones laboratory Cooke saw a 4 mile long copper wire circuit that had been readied for the above experiments. Wheatstone had not been able to get any useful results with this circuit and was unable to give Cooke any useful information on that score. But Cooke was apparrantly happy that a rival had not been able to be any more advanced than he was.

Cooke was invited to operate his own Telegraph over this circuit, but again there was no success.

He says in a letter dated 1837 ''The result was nearly what I had anticipated, the electric fluid losing its magnetizing quality in a lengthened course''.

Wheatstone wrote an account of his meeting with Cooke, ''He came, and after seeing a variety of voltaic magnets, which with powerful batteries exhibited only slight adhesive attraction, he expressed his disappointment in these words, which I well remember. 'here is two years labour wasted'.

This labour could have been avoided had the two men been aware of Ohm's work, which had been published back in 1827, but It would not be known in Britain, The USA and France for over 10 years when Ohm was awarded the Copley Medal of the Royal Society in 1841.

Wheatstone paid a tribute to Ohm in 1843 by saying he (OHM) had established principles not yet generally understood and admitted even by many persons engaged in original research. Wheatstones fellow worker. professor J, Daniell however showed that he under-stood Ohm's principles when he gave an address on the subject of the use of Multi-cell Batteries for long circuits. In this address Daniell used the terms Resistance and Electromotive Force precisely in their modern meaning.

More next week, Cook and Wheatstone form a

Partnership.

73's Col VK2CTD.

IPS Weekly Solar and Geophysical Report for 14/20th Jan

SUMMARY

Date	14	15	16	17	18	19	20	
10cm flux	130	145	145	138	124	133	123	
AFr index	11	11	10	27	35	31	12	estimated
Aaus inde	10	18	16	42	55	29	14	estimated
T index	47	75	68	40	46	4	60	

Solar flare activity was moderate on 14th 16th and 18th
and high 15th 17th 19th and 20th.

The following flares were reported:
14th three M1
15th one X2, one X1, two M8, one M3 and two M1
16th one M2
17th one X3, one M2
18th one M4 and one M1
19th one X1, one M6, one M2 and one M1
20th one X7

Geomagnetic activity observed for the Australian Region was quiet
to active on 14/16th and 20th, unsettled to major storm on 17th
active to severe storm levels on 18th and quiet to minor storm
on 19th.

Southern Australian Ionospheric F2 critical frequencies were near
predicted to 20 percent enhanced on 14th enhanced 25 to 15 percent
on 15th near predicted on 16th mostly near predicted to 35 percent
enhanced on 17th mostly near predicted to 25 percent depressed on
18th depressed 20 to 35 percent on 19th and depressed 15 percent
to 20 percent enhanced on 20th.

COMMENT: Very depressed regional Maximum Usable Frequencies observed
19th. A coronal mass ejection from X7 flare is believed enroute to
Earth. Some storm activity is possible on 23rd.

Forecast for 21/27th Jan

Solar activity should be moderate 21st and 22nd then low.

Geomagnetic activity should be mostly quiet with minor storm
intervals possible on 23rd. Coronal hole wind stream induced
activity is expected 24th and 25th.

Frequencies should be depressed 15 to 20 percent on late 23rd to
24th with minor depression possible 25th and 26th, otherwise near
normal. Short Wave Fadeouts are possible early in the week.

courtesy of the IPS Radio and Space Services

summary by Pat Leeper ANARTS Broadcast Officer

VK2SG RTTY DX NOTES FOR WEEK ENDING 20 JAN

This week our information came from AA5AU GU0SUP I1JQJ(425)
I5FLN and the Central Europe clusternode DB0SPC. Thank you all.

Friday 14
0848-14088 3A2BF
1231-14081 VK2KM
1304-14082 CU3CC
1553--7040 LX1DA
1606-14082 YB5BO
1623-18104 VQ9LA
1647-14087 3B9FR
1943--7039 HZ1IK
2025-14081 5Z4DZ
2201--7038 VK6HD
2221-14085 SV1GYG

Saturday 15
0922-14087 TF3FK
0958-14085 3A2BF
1038-21083 LX1ER
1102-14089 VR2BG
1247-14082 ZL4AD
1251-21082 9G5OO via DL4WK
1347-14089 4K6DI
1406-18101 9G5OO
1505-21084 VQ9LA
1512-14087 VU3SOP
1643-10139 OY4TN
1820--7040 HZ1IK
2108-14086 YV5ANF
2109-14083 PY7ZZ
2318-10142 PT7AZ

Sunday 16
0029-14083 LU6DCK
0150-24923 VR2BG
0732-18106 AP2IA
0906-21080 5Z4DZ
1016-14080 UN8PIM
1159-24922 ZC4LI
1200-24920 9G5OO
1209-24922 KP4JRS
1246-14083 CU3CC
1257-21085 9G5OO
1314-14088 OD5PL
1336-14080 XU7ABN
1348-14086 TF3FK
1348-21081 PZ5RA
1357-18105 ZC4LI
1440-18104 SU9FL via WD9DZV
1453-21088 3B9FR
1554-14090 3B9FR
1559-14085 OX3DB
1654-14092 EA8KK
1707-14086 HR1RMG
1712-18102 KG4SB
1712-14086 HZ1IK
1732--7039 HZ1IK
1747-14090 KG4SB
1751-14084 HK6DOS
1753-18102 HR1RMG

1800-18105 FM5JC via F5CWU
1826--7040 XU7ABN
1841-21086 CT3FQ
1854--7038 OD5/SP5LKN
1929-10136 9G5OO
1939--7036 EK3GM
2021-21088 XQ1VLY
2233-21085 WH7N
2240-10142 PT7AZ
2243-10139 FM5JC
cq cq de vk2tty vk2tty

Monday 17
0942-10139 VR2BG
1311-28081 9G5OO
1716--7034 TR8CA
1719--7035 A71EM
1806-14086 IS0SDX
1816--7040 HZ1IK
2347-14085 LU9HS

Tuesday 18
1012-14080 EA6BH
1054-28082 KG4SV
1055-14084 EA8KL
1226-14080 VK2KM
1414-14083 3A2MW
1459-14083 HZ1IK
1715-14082 KG4SB
2045--7038 OD5/SP5LKN

Wednesday 19
1319-14083 UN8PIM
1334-21086 A71EM
1403-21087 FR1GZ
1422-21085 YC2HXI
1438-14083 FR5ZL
1504-14083 UK8OAR
1540-14084 5B4AGN
1730-14088 KG4SB
1846-14082 EA8/DL3KVR
1903-14085 EA8RR
1945--7038 CT1XK

Thursday 20
0234--7075 KG4SB
1219-14089 VK2KM
1317-18105 HZ1IK
1328-14088 UN8PIM
1510-14087 OD5PL
1510-14080 HZ1IK
1538-14085 3B9FR
1705-14085 KG4SB
1719--7037 OD5/SP5LKN
1804-14083 VQ9LA
1810-14085 PY7ZZ

Notes of Interest

The BARTG RTTY SPRINT contest runs Saturday 1200 UTC to Sunday 1200UTC.

ROTUMA - 3D2/R: HA8IB and HA9RE will operate from Rotuma 27 Jan to

21 Feb. Check 160-10 metres CW SSB and RTTY.

PETER I ISL. - 3Y0X: There will be at least a two and one-half to
three-week delay in the planned 3Y0X DXpedition.

SOUTH COOK ISL. - ZK1: ZK1WET will be active on RTTY CW and possibly PSK31
Jan 31 to Feb 17.

The VK2SG RTTY DX NOTES are distributed every week via the
Winlink network, and are also available on the Internet at
URL http://mailman.qth.net/mailman/listinfo/vk2sg-rtty
and the digital-dx reflector.

To subscribe to the digital-dx reflector, send an e-mail
message to majordomo at mla.nifty.ne.jp as follows:
Subject:(blank) Message Body: subscribe digital-dx

For next week's bulletin, send your bandpass and notes of
interest to Don AA5AU e-mail aa5au at bellsouth.net

Goetz Linss DJ3IW

The Ohio/Penn Dx Bulletin No. 694 +IBM- excerpts+-

3B8, MAURITIUS (Also PT7)
Tibi, HA7TM, will be active as 3B8/HA7TM from January 25th to February 3rd.
Activity will be on 40-10 meters including the WARC bands using a radio with 100
watts into a four band GP antenna by DunaX. After his operation here, he will go
to Brazil between February 21st and March 2nd, and be active as HA7TM/PT7. His
QTH will be Fortalese. QSL cards are +ACI-OK+ACI- via the HA bureau or direct using the
(QRZ.com) address.

3Y0X PETER I ISLAND DXPEDITION UPDATE (Op Delayed+ACE-)
On January 13th, the following was a press release sent out by Team Co-leaders
Ralph Fedor, K0IR and Bob Allphin, K4UEE: DXpedition Delayed
  FOR IMMEDIATE RELEASE: +ACI-There will be at least a two and one-half to
  three-week delay in the planned 3Y0X DXpedition. Problems have arisen with
  completing the renovation and re-registration of the ship on schedule.
  We currently have one team member in Chile gathering information. On Jan. 17 a
  second team member will arrive. The two of them will travel to the shipyard
  and personally inspect the vessel. We will know more after this meeting and
  will update you at that time.
  Our entire team remains intact. We are all eager to be underway.
This is a huge undertaking and very, very expensive. The team members are
funding 74+ACU- of the total cost and need your help with the remaining expenses.
Your contribution will be very much appreciated. Send contributions to either:
K4UEE, F2JD, JA1ELY or ZL2AL (check the website for an easy-to-use donation
form).+ACI- The URL address for the donation form is:
http://www.peterone.com/contribute.htm
The main Peter I Island DXpedition Web site is:
http://www.peterone.com

A25, BOTSWANA
Operators Hans/DL7CM and Sid/DM2AYO will be active as A25/DL7CM (possibly A25CM)
and A25/DM2AYO, respectively, April 6-20th. Activity will be on 160-6 meters
CW/SSB/RTTY/PSK31. They will have two stations active with amps using a 27m GP,
3 element 5 band beam, HF9V and a 4 element beam for 6m. QSL via their home
callsign. Visit their Web page (which will have a log search) at:
http://www.qsl.net/dl7cm/A2.htm

AAW 2005 ANNOUNCEMENTS
Francois, F8DVD, an individual very fond of Polar countries (has stayed at 8 North Polar bases and the North Pole) has received the special French callsign TM8ANT to be used during the next Antarctic Activity Week (AAW). This callsign is valid from February 14-27th. The activity will be on the HF bands, especially on SSB. QSL TM8ANT via F8DVD: Francois Bergez, 6, rue de la Liberte, F-71000 MACON, FRANCE.
Francesco Giacoia, IZ7AUH, from the Italian Taranto HF Team (ARI Taranto) will be active as II7ANT during the next AAW. QSL via IZ7AUH: Francesco Giacoia, P.O. Box 2224/TA-05, 74100 TARANTO (TA), ITALY.
Both I7YKN and I7OCD will join the AAW using the callsign IU7ANT. QSL via I7YKN: Nuccio Meoli, P.O. Box 66, 73010 Porto Cesareo (LE) ITALY.
The +ACI-STRANGE RADIO TEAM+ACI- will participate in the next AAW with the special II8ANT callsign. Operators will be: IK8LIU/John, IK8MRA/Gianni, IK8YTG/Enzo, IZ8EDJ/Oreste, IZ8EQF/Francesco, IZ8EZP/Mario and IZ8GGF/ Salvatore. QSL via: ORESTE D'ANZILIO, P.O.Box 49, 84091 BATTIPAGLIA (SA), ITALY.
PLEASE take note that all special ANT stations are valid for both WAP WADA and WAP WACA Awards. Check the 4th edition of the WAP Antarctic Directory on: http://www.ddxc.net/wap
Also, the latest WAP Antarctic Bulletin is available on the same WAP Web site.

AY1ZA STORY ON THE WEB
The story of the AY1ZA DXpedition is now available online at:
http://www.mdxc.org/antarctica/AY1ZA+AF8-ARTICLE.doc
cq cq de vk2tty vk2tty

FS, ST. MARTIN
Dennis, KT8X, will be active as FS/KT8X from March 4-11th. This will be a holiday style operation with an emphasis on the WARC bands. However, he does plan to enter the ARRL DX SSB Contest (March 5-6th) as a Single-Op entry. QSL route will be the +ACI-Logbook of The World+ACI- (LoTW).

IOTA NEWS

NA-093. A Cuban ham radio group will activate Cayo Jutia Island, Los Colorados, in the Pinar Del Rio Province, January 27-31st. Five operators will use their own personal callsigns and will be active on SSB and PSK31, on the following frequencies:
  SSB - 1950, 3770, 7090, 14260, 18145, 21260, 24945, 28450
  PSK31 - 1838, 3600, 7070, 10110, 14070, 18100, 21070, 24920 and 28120 kHz
Operators are Lazaro/CO2WL, Jorge/CO3LF, Jorge/CO3JN, Juan/ CO3CJ and Gamboa/CO3VK. QSL CO2WL via EA3ESZ. QSL CO3LF, CO3JN, CO3CJ and CO3VK via IZ8EBI: P.O. Box 364, 87100 Cosenza, ITALY.

J73, DOMINICA
Lars, SM0CCM, will be active as J73CCM from February 16th to March 14th (for the 6th time). Activity will be on all bands, mostly CW and RTTY, but also some PSK and SSB. QSL to his home callsign SM0CCM. ADDED NOTE: He states that he will probably be active for a few days from the Caribbean Indian Territory as J70SWD (See more about J70SWD on (QRZ.com)).

TS1, TUNISIA (Special Event)
All Tunisian Hams are allowed to use the special callsign, TS1WHC, during the upcoming World Handball Championship in Tunisia between January 23rd to February 2nd. Activity will be on the HF bands, SSB and maybe CW and SSTV. QSL all QSOs via the bureau, or direct to: ASTRA, B.P. 339, Tunis El-Mahrajen, 1082 Tunis, Tunisie.

ZK1, NORTH AND SOUTH COOK ISLANDS (Update)
Magnus, SM6WET, informs OPDX that he and a team of operators will be active from North and South Cook Islands as follows:
Aitutaki Island (IOTA OC-083, South Cook) - January 31st to February 17th:

Look for the callsigns ZK1WET, ZK1XMY, ZK1SDE and ZK1SDZ. Most of the activity
will be on SSB but ZK1WET will be active on RTTY, CW and possibly PSK31. Also,
look for ZK1WET in the CQ WPX RTTY Contest.
Manihiki Atoll (IOTA OC-014, North Cook) - February 17-24th: Callsigns to be
used will be ZK1SDE and ZK1SDZ.
Aitutaki Island (IOTA OC-083, South Cook) - February 24th to March 3rd:
Callsigns to be used will be ZK1SDE and ZK1SDZ.
The DXpedition will concentrate mostly on 17 and 20 meters, although there will
be activity on 160-10 meters. They will have full size monoband yagis for
10/17/20 meters and verticals for the other bands. They plan on having a double
sided QSL card printed for each station. Do not QSL via the Bureau. QSLing is
preferred via M3SDE direct.

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cq cq de vk2tty vk2tty
The Society can be contacted in the following ways: To Pat VK2JPA via vk2jpa at wia.org.au or Col
VK2CTD via ctdavies at bigpond.net.au or you can drop a line to P.O. Box 93 Toongabbie, NSW 2146.

73's for this week from Pat VK2JPA Broadcast Officer
NNNN